

Rabbit LSD1 Polyclonal Antibody | anti-KDM1A antibody

LSD1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA288940	Rabbit	Human (Predicted Reactivity: Mouse)	Immunofluorescence, Immunohistochemistry, ELISA, Western Blot

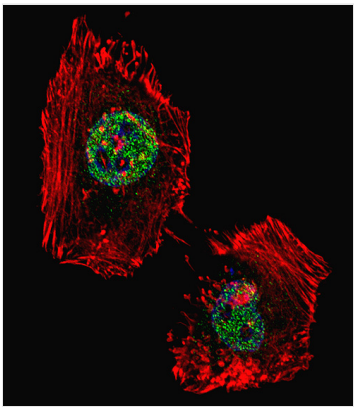
PRODUCT SYNONYMS

LSD1; Polyclonal Antibody; LSD1 Antibody (C-term); Lysine-specific histone demethylase 1A; 1---; BRAF35-HDAC complex protein BHC110; Flavin-containing amine oxidase domain-containing protein 2; KDM1A; AOF2; KDM1; KIAA0601; anti-KDM1A antibody

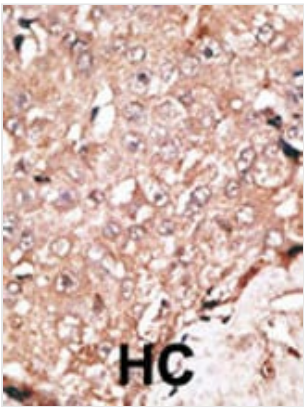
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Mouse)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This LSD1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 819-852 amino acids from the C-terminal region of human LSD1.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 2 (varies by lot)
Sequence Positions	819-852
Sequence Length	876
Applicable Applications for anti-KDM1A antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

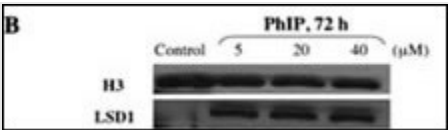
IMAGES



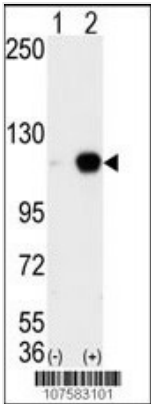
IF (Immunofluorescence)
Fluorescent confocal image of Hela cell stained with hLSD1-Y712. Hela cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with hLSD1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). hLSD1 immunoreactivity is localized to nucleus significantly.



IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



WB (Western Blot)
Western immunoblot. Nuclear extracts of control and PhIP-treated HMEC. Proteins were transferred onto polyvinylidene difluoride and blotted with anti-LSD1 antibody. Nuclear LSD1 protein levels increased in carcinogen-treated HMEC compared with control HMEC.



WB (Western Blot)
Western blot analysis of AOF2 (arrow) using LSD1 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AOF2 gene (Lane 2) (Origene Technologies).

ADDITIONAL INFORMATION

Related Product Information for anti-KDM1A antibody	LSD1 is a histone demethylase that specifically demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. LSD1 contains a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. It acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. LSD1 demethylates both mono- and tri-methylated 'Lys-4' of histone H3. This protein may play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3 'Lys-4' on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. It may also demethylate 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to derepression of androgen receptor target genes.
References	Forneris,F., et al. FEBS Lett. 579 (10), 2203-2207 (2005) Shi,Y., et al. Cell 119 (7), 941-953 (2004) Hakimi,M.A., et al. J. Biol. Chem. 278 (9), 7234-7239 (2003) Hakimi,M.A., et al. PNAS 99 (11), 7420-7425 (2002) Humphrey,G.W., et al. J. Biol. Chem. 276 (9), 6817-6824 (2001) Ota, T., et al., Nat. Genet. 36(1):40-45 (2004).

NCBI AND UNIPROT INFORMATION

NCBI GI #	58761544
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NCBI GeneID	23028
NCBI Accession #	NP_001009999.1; NP_055828.2
NCBI GenBank Nucleotide #	NM_001009999.2
UniProt Accession #	O60341; Q5TH94; Q5TH95; Q86VT7; Q8IXK4; Q8NDP6; Q8TAZ3; Q96AW4; A8MWP9
Molecular Weight	92903
NCBI Official Full Name	lysine-specific histone demethylase 1A isoform a
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 1A
NCBI Official Symbol	KDM1A
NCBI Official Synonym Symbols	AOF2; KDM1; LSD1; BHC110
NCBI Protein Information	lysine-specific histone demethylase 1A
UniProt Protein Name	Lysine-specific histone demethylase 1A
UniProt Gene Name	KDM1A
UniProt Synonym Gene Names	AOF2; KDM1; KIAA0601; LSD1
UniProt Entry Name	KDM1A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/lzd1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/288940>